

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) An optical transceiver for use with an optical plug disposed at one end of an optical fiber, comprising:
 - an optical socket to mount the optical plug;
 - a plurality of light-condensing devices;
 - an optical element to perform at least one of emitting light in accordance with a supplied electrical signal, and generating an electrical signal in accordance with a received light signal; and
 - a light-transmissive substrate to support the optical socket, the light-condensing device, and the optical element so that the optical fiber, the light-condensing device, and the optical element are aligned on an optical axis of the optical transceiver,
 - wherein the optical element is disposed on one surface of the substrate and the optical socket is disposed on the other surface of the substrate in correspondence with the location of the optical element, and the plurality of the light-condensing devices being used, with one of the light-condensing devices being disposed on the other surface of the substrate in correspondence with the location of the optical element and another light-condensing device being disposed near an end of the optical socket so as to oppose the optical element.
2. (Previously Presented) An optical transceiver for use with an optical plug that holds one end of a first optical fiber and one end of a second optical fiber, comprising:
 - an optical socket to mount the optical plug;
 - first and second light-condensing devices;
 - a light emitter to emit light in accordance with a supplied electrical signal;

a light receiver to generate an electrical signal in accordance with a received light signal; and

a light-transmissive substrate to support the optical socket, the first and second light-condensing devices, the light emitter, and the light receiver so that the first optical fiber, the first light-condensing device, and the light emitter are aligned on a first optical axis of the optical transceiver and so that the second optical fiber, the second light-condensing device, and the light receiver are aligned on a second optical axis of the optical transceiver,

wherein the light emitter and light receiver are disposed on one surface of the substrate and the optical socket is disposed on the other surface of the substrate in correspondence with the location of the light emitter and light receiver, and the first and second light-condensing devices being used, with one of the light-condensing devices being disposed on the other surface of the substrate in correspondence with the location of the light emitter and light receiver, and another light-condensing device being disposed near an end of the optical socket so as to oppose the light emitter and light receiver.

3. (Previously Presented) An optical transceiver for use with an optical plug disposed at one end of an optical fiber, comprising:

an optical socket to mount the optical plug;
a plurality of light-condensing devices;
an optical element to perform at least one of emitting light in accordance with a supplied electrical signal, and generating an electrical signal in accordance with a received light signal; and

a light-transmissive substrate to support the optical socket, the light-condensing device, and the optical element so that the optical fiber, the light-condensing device, and the optical element are aligned on an optical axis of the optical transceiver, the optical element being disposed on one surface of the substrate, and the light-condensing

device and the optical socket being disposed on the other surface of the substrate in correspondence with the location of the optical element,

wherein the optical element is disposed on one surface of the substrate and the optical socket is disposed on the other surface of the substrate in correspondence with the location of the optical element, and the plurality of the light-condensing devices being used, with one of the light-condensing devices being disposed on the other surface of the substrate in correspondence with the location of the optical element and another light-condensing device being disposed near an end of the optical socket so as to oppose the optical element.

4. (Canceled)

5. (Original) The optical transceiver according to Claim 2, the light emitter and the light receiver being disposed on one surface of the substrate, and the first and second light-condensing devices and the optical socket being disposed on the other surface of the substrate, with the first and second light-condensing devices being disposed on the other surface of the substrate in correspondence with the locations of the light emitter and the light receiver, respectively.

6. (Previously Presented) The optical transceiver according to Claim 2, the light emitter and the light receiver being disposed on one surface of the substrate and the optical socket being disposed on the other surface of the substrate in correspondence with the locations of the light emitter and the light receiver, and the first and second light-condensing devices being disposed so that one of the first and second light-condensing devices is disposed on the other surface of the substrate in correspondence with the location of one of the light emitter and the light receiver and the other of the first and second light-condensing devices is disposed near an end of the optical socket so as to oppose the one of the light emitter and the light receiver.

7. (Original) The optical transceiver according to Claim 1, the substrate being a glass substrate.

8. (Original) The optical transceiver according to Claim 1, the substrate having a plurality of guide holes, and the optical socket having a plurality of guide pins that are disposed in the respective guide holes.

9. (Original) The optical transceiver according to Claim 1, the optical socket being joined to the substrate.

10. (Original) The optical transceiver according to Claim 1, the light-condensing device being any one of a refractive lens, a Fresnel lens, and a Selfoc lens.

11. (Original) The optical transceiver according to Claim 1, at least one of the optical element and the light emitter being a surface emitting laser.

12-35. (Canceled)

36. (Previously Presented) An optical transceiver for use with an optical plug that holds one end of a first optical fiber and one end of a second optical fiber, comprising:
an optical socket to mount the optical plug;
first and second light-condensing devices;
a light emitter to emit light in accordance with a supplied electrical signal;
a light receiver to generate an electrical signal in accordance with a received light signal; and

a light-transmissive substrate to support the optical socket, the first and second light-condensing devices, the light emitter, and the light receiver so that the first optical fiber, the first light-condensing device, and the light emitter are aligned on a first optical axis of the optical transceiver, the light emitter being disposed on one surface of the substrate, and the first light-condensing device and the optical socket being disposed on the other surface of the substrate in correspondence with the location of the light emitter, and so that the second

optical fiber, the second light-condensing device, and the light receiver are aligned on a second optical axis of the optical transceiver, the light receiver being disposed on one surface of the substrate, and the second light-condensing device and the optical socket being disposed on the other surface of the substrate in correspondence with the location of the light receiver.